

SWBAT: calculate electrical power and analyze circuits

Jan 4-7:20 AM

# Welcome!!!

H. Leslie Grebe

SECA Physics  
Monday 17 March 2014

- \* Pick up:
- slip of paper (for later)
- worksheet

Centering

## Test this week!

Opening Questions:

Which is stronger: magnetism or gravity?

SUPER  
STRONGER

MAGNET  
UP!  
< 1 kg

EARTH = DOWN

$6 \times 10^{24}$  kg

Sep 7-7:04 AM



### Mystery Resistor - extra credit

- You may work alone or with at most one other person of your choosing.
- Get a "Mystery Resistor" labeled with a letter from Leslie
- Use the same equipment that our teams used in class. Take measurements that will allow you to calculate the resistance (in Ohms) of your resistor.
- You may work when there is spare time in class or arrange other time with Leslie.

Due by 3:00 Friday 3/28

Jan 19-7:12 AM

## Exploring Magnetism

OBSV #1

1. How do two magnets interact? What does that have to do with the labeled ends?

OBSV #2

2. What happens when you bring a magnet near a compass?  
(Try it from different directions...)

MEANS #2

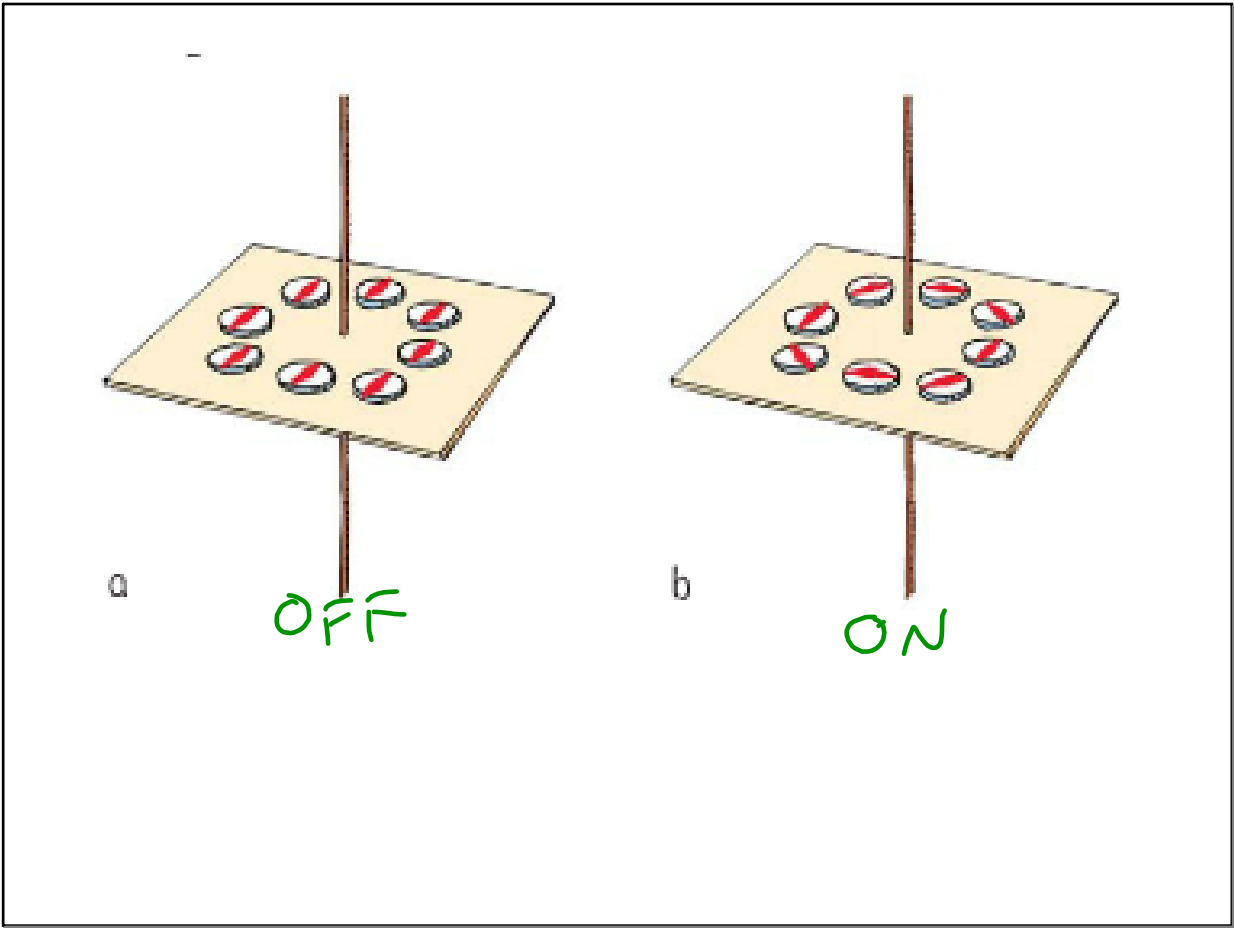
3. The compass is a tool. What does it show?

Mar 25-7:41 AM

What we OBSERVED	What it MEANS	What's the BIG IDEA?
N'S ATTRACT N & N REPEL S & S REPEL	OPPOSITES FORCES! MAGNETS MAKE FORCES	MAGNETS ARE DIPOLES N'S <u>NOT</u> + -
N TO WHITE S TO RED POINTER MOVES EVEN WITHOUT TOUCHING	COMPASS REACTS TO MAGNETIC FORCES	MAGNETS MAKE MAGNETIC FIELDS!
CURRENT IN WIRE IT MADE COMPASS ARROW MOVE!	CURRENT MAKES MAGNETIC FORCES	CURRENT MAKES MAGNETIC FIELDS TOO!

Catchy Physics Phrases...

Mar 25-7:45 AM



Jan 3-7:45 AM

What reacts to a magnet???

CHEAP &  
STRONG

Ni, Co

Material	Prediction	Observation
Wood	N	N
Plastic	N	N
Copper	Y/N	N
Aluminum	Y/N	N
Steel	Y	Y
Brass	Y/N	N
Penny (Zinc & Cu)	Y/N	N

LEAD  
SILVER

SURPRISE?

Mar 25-7:41 AM

Daily 3 Questions

CP homework - Electric and magnetic fields: one similarity and one difference

- \* Every day except test/project days
- \* 3 Questions on the topics of the day
- \* Main source of daily points
- \* I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

Your can't get your points if you don't have your NAME!!!

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1) For the paper clips, which force was stronger:  
Gravitational or Magnetic?

*SUPER STRONGER*

2) Instead of separate positive and negative charges,  
magnets have DIPOLES?

*N & S  
POLES*

3) True or False: Copper reacts to magnets.

Feb 18-6:59 AM